EKINCAN UFUKTEPE

https://ekincanufuktepe.github.io/

Izmir Institute of Technology, Computer Eng. Dept. Office:112, Gulbahce Koyu & Urla/Izmir, TURKEY 35430 Yenikent Mah. Ceren Sk. No:9 & Urla/Izmir, TURKEY 35430

EDUCATION

Izmir University of Economics

June 2011

B.Sc. in Computer Engineering

 $\textbf{Thesis:} \ \text{An Investigation of Image Processing Features Using Neural Networks in SAR Remote Sensing}$

Classification

Advisor: Dr. Turker Ince

Izmir Institute of Technology

July 2014

M.Sc. in Computer Engineering

Thesis: Measurement of JavaScript Applications' Readiness to Untrusted Data Using Bayesian Net-

works

Advisor: Dr. Tugkan Tuglular

Izmir Institute of Technology

September 2014 - June 2019 (Expected)

Ph.D. in Computer Engineering

Thesis: Test Case Prioritization for Regression Testing by Using Change Impact Analysis

Advisor: Dr. Tugkan Tuglular

EXPERIENCE

University of Missouri, Columbia

Starting by July 2019

Research Fellow

Columbia, MO

Izmir Institute of Technology

March 2012 - Present

Research/Teaching Assistant

Izmir, Turkey

- · Teaching and Lab preparation for undergraduate students.
- · Homework and Lab assignment preparation.
- · Homework, Lab assignment and quiz evaluation.

SAP Labs March 2013 - August 2013

Intern

Mougins, France

- · Participated a project on preventing input validation vulnerabilities on server-side web applications on SAP HANA Cloud.
- · Developing and improving an Eclipse plug-in for input validation analysis and policy generation.
- · Creating the architecture and UML diagrams of the project.
- · Documentation of software development process and user manual.

Izmir University of Economics

February 2011 - May 2011

Student Assistant

Izmir, Turkey

- · Assisted Probability and Stochastic Processes course as a student assistant.
- · Homework preparation and evaluation.

Universidad de Cantabria, App. Math. & Compt. Sciences *Intern*

June 2010 - August 2010 Santander, Spain

· Participated project Santadeuorpa.

· The project included game development, graphic and computer game designing by using artificial intelligence with UDK (Unreal Development Kit).

Vestel, R & D Dept.

August 2009 - September 2009 Manisa, Turkey

Intern

· Developing Google Gadgets and Yahoo Widgets by using JavaScript for IPTVs.

· Developing a RSS based Daily News reporting using Google Gadgets and Yahoo Widgets

TECHNICAL STRENGTHS

Computer Languages Java, C/C++, Python, JavaScript, PHP, Scheme/Racket,

Protocols & APIs XML, JSON, DOT Databases MySQL, PostgreSQL

Application Programs MATLAB, Eclipse, Netbeans, MS Office, OpenOffice/Libre Office, PolSARPro,

MS Visual Studio, CodeBlocks, Graphviz.

Tools Web Scarab, W3AF, PMD, TAJS

PUBLICATIONS

Journals

- 1. Ufuktepe E., Tuglular T., Graphical Probabilistic Models with Program Slicing and Call Graphs for Change Impact Analysis, Journal of Software Evolution and Process, 2019 (Under Review)
- 2. Ufuktepe E., Tuglular T., Estimating Software Robustness in Relation to Input Validation Vulnerabilities using Bayesian networks, Software Quality Journal, 2017

Conferences

- 1. Ufuktepe E., Tuglular T., A Program Slicing-based Bayesian Network Model for Change Impact Analysis, IEEE International Conference on Software Quality, Reliability and Security (QRS), 2018
- 2. Ufuktepe E., Tuglular T., Automation Architecture for Bayesian Network Based Test Case Prioritization and Execution, Computer Software and Applications Conference (COMPSAC), 2016 IEEE 40th Annual
- 3. Ufuktepe E., Tuglular T., Measurement of JavaScript Applications' Readiness against Untrusted Data Using Bayesian Networks (In Turkish), 7th International Conference on Information Security and Cryptography, ISC 2014

National Conferences

- 1. Ufuktepe E., Tuglular T., Input Validation Analysis for JavaScript Libraries (In Turkish), 9. Ulusal Yazılım Muhendisligi Sempozyumu, UYMS 2015 (Best Paper)
- 2. Toksoy M., Sofuoglu, S. C., Ekren O., Ufuktepe, E., Varlik N., *Determining Ventilation in Class-rooms* (In Turkish), 12. Ulusal Tesisat Muhendisligi Kongresi, Izmir, 2015

PATENTS

- 1. An Approach to Measure a Software's Robustness, Turkish Patent Institute, **Document ID:** 2015-GE-492476 (Pending), Ufuktepe E., Tuglular T.,
- 1. A Program Slicing and Bayesian Network Based Approach to Predict Future Changed Methods in a Software's Next Version, Turkish Patent Institute, (Applied), Ufuktepe E., Tuglular T.,

AWARDS

- 1. Incentive Award in area of Biology, 1 4 May 2007, 16. MEF Competition of Research Projects.
- 2. Honorary Mention Award in area of Biology, 2 June 2006, D.E.Ü. Faculty of Engineering and Uğur Dershaneleri 3. Competition of Science and Engineering Projects.
- 3. Finalist in area of Biology, 2006, 36. TÜBİTAK Competition of Secondary Education Students Research Projects.

REFERENCES

- 1. Dr. Tugkan Tuglular, Izmir Institute of Technology
- 2. Dr. Fevzi Belli, University of Paderborn
- 3. Dr. Yusuf Murat Erten, Izmir Institute of Technology
- 4. Dr. Tolga Ayav, Izmir Institute of Technology